

APPENDIX I

BANK INDONESIA CIRCULAR LETTER

NUMBER 17/30/DPSP DATED 13 NOVEMBER 2015

ON

OPERATION OF REAL TIME FUND SETTLEMENT THROUGH SISTEM

BANK INDONESIA REAL TIME GROSS SETTLEMENT

INFRASTRUCTURE SPECIFICATION OF RTGS PARTICIPANT PLATFORM

1. Server

Minimum specification for server based on the number of connections between the client and web application is as follows:

Component	Specification		
	up to 500 Connection	500 to 1000 Connection	1000 to 2000 Connection
Processor	One quad-core Intel Xeon 3 GHz or equal	One six-core Intel Xeon or equal	Two six-core Intel Xeon or equal
Random Access Memory (RAM)	6 Gigabyte (GB) or higher	16 GB or higher	
Hard Disk	2 x 146 GB (RAID1)		2 x 256 GB (RAID1)
Operating System	Windows 2003 or 2008 R2 Server x64 (64-bit) Standard Edition		
RDBMS software	Recommended to use Oracle 11gR2 or: 1. Oracle XE 2. Oracle Standard Edition One 3. Oracle Standard Edition 4. Oracle Enterprise Edition		
Web server software	Tomcat		
Other software	Java 6		

2. Workstation

Minimum specification of workstation or equal is as follows:

HARDWARE	
Processor	Minimum Intel Core i5-4690 Processor (3.90 GHz, 6MB cache)

Chipset	Minimum Intel Q87 Express Chipset
RAM	Minimum 8 GB DDR3 1600 Mhz type
Hard Disk	Minimum 500 GB with SATA interface 3GB/s and speed of 7200 RPM
Graphics	Minimum Intel HD Graphics 4600
Monitor	TFT LCD flat panel analog with a minimum size of 21" wide and recommended resolution of 1366 x 768
Optical Disc Drive	DVD-RW Drive Internal
Ethernet	Gigabit Ethernet
Keyboard	Wired Standard USB keyboard
SOFTWARE	
Operating System	Microsoft Windows 7 Pro (OEM preinstalled) 64x
Internet Browser	Microsoft Internet Explorer 10
Other software	a. Installer Public Key Infrastructure (PKI) b. Antivirus software is recommended for each workstation to be used to communicate with Sistem BI-RTGS c. Java Runtime Environment version 1.7.0_45 d. Safenet Authentication Client 8.1 Service Pack 2
OTHERS	
1. Time must be synchronized with Bank Indonesia server time.	
2. Not join domain.	
3. Application runs by using local administrator.	

3. Database Specification

Specification and Limitation	Express Edition	Standard Edition One	Standard Edition	Enterprise Edition
Max Processor	1 CPU	2 Sockets	4 Sockets	No limit
RAM	1 GB	OS Max	OS Max	OS Max
Database size	4 GB	No limit	No limit	No limit
Supported operating system	Windows/ Linux	Windows/ Unix/ Linux	Windows/ Unix/ Linux	Windows/ Unix/ Linux
64 bit support	No	Yes	Yes	Yes
Availability and scalability				
a. Real App Cluster	No	No	Yes	Yes
b. Active Data Guard	No	No	No	Yes
c. Golden Gate	Yes	Yes	Yes	Yes
Security: Data Encryption	No	No	No	No
Manageability: Automatic Database	No	No	No	Yes

Diagnostic and Tuning				
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4. Printer

Printer type which is recommended is laser printer installed in each working unit of RPP user in Participant. The number of printers is adjusted to Participant's needs by considering, among others, Participant's transaction volume and number of RPP application user unit in a Participant.

BANK INDONESIA, (*countersigned*)

(*signed*)

BRAMUDIJA HADINOTO

HEAD OF PAYMENT SYSTEM

MANAGEMENT DEPARTMENT

APPENDIX II

BANK INDONESIA CIRCULAR LETTER

NUMBER 17/30/DPSP DATED 13 NOVEMBER 2015

ON

IMPLEMENTATION OF REAL TIME FUND SETTLEMENT THROUGH

BANK INDONESIA REAL TIME GROSS SETTLEMENT SYSTEM

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EXAMPLE II.1

REQUEST LETTER TO BECOME A PARTICIPANT

No. ...¹

To

Bank Indonesia

Payment System Implementation Department

Fund Settlement and Securities Implementation Division

Building D Floor 3

Jalan M.H. Thamrin No. 2

JAKARTA 10350

Re: **Request Letter to Become a BI-RTGS System Participant (and to Open
Rupiah Current Account)**²

Referring to Bank Indonesia regulation on implementation of real time fund settlements through BI-RTGS System and current accounts with Bank Indonesia, we ...³ (on our own behalf/on behalf of Sharia Business Unit)⁴ hereby lodge a request to:

1. Become a BI-RTGS System Participant.
2. Open Rupiah Current Account.⁵

The participation is for Sharia Business Unit.⁶

¹ Filled in with request letter number.

² Filled in if a Participant Candidate does not have any Current Account with Bank Indonesia.

³ Filled in with Institution's name.

⁴ Filled in and selected if a Participant Candidate is a Bank.

⁵ Filled in if a Participant Candidate does not have any Current Account with Bank Indonesia.

⁶ Filled in if the participation request is lodged for the interest of Sharia Business Unit.

In relation to the foregoing request, we hereby submit the following documents as required:

1. Required documents to become a Participant in accordance with the following provisions as specified by Bank Indonesia:
 - a. copy of valid business license from the competent institution, which has been certified by the competent official or authenticated by the relevant Management;
 - b. statement letter from a Participant candidate's Management declaring that the Participant candidate is not in the process of liquidation or in insolvent condition;
 - c. statement letter from a Participant candidate's Management declaring RPP infrastructure readiness;
 - d. statement letter from another party on their infrastructure use by a Participant candidate;⁷
 - e. statement letter from a Participant candidate declaring that they have an agreement on use of BI-RTGS System infrastructure managed by another party;⁸
 - f. copy of fit and proper test decision of a Participant candidate's Management issued by the relevant supervisory institution or Management's structure according to the latest condition approved by the relevant supervisory institution;
 - g. copy of document evidencing that a Participant candidate is not included in the list of non-performing loans issued by the relevant supervisory institution;⁹
 - h. statement letter from a Participant candidate's Management declaring that the Participant candidate's Management:
 - 1) is not included in the list of non-performing loans and national blacklist issued by the competent institution; and

⁷ Filled in if a Participant candidate uses another party's infrastructure.

⁸ Filled in if a Participant candidate uses another party's infrastructure.

⁹ If a Participant candidate is a clearing and/or settlement operator and any other institution established under the law of Indonesia.

- 2) has never been punished for any crimes in banking, finance, and/or money laundering under a final court decision;¹⁰
 - i. statement letter from a Participant candidate's Management on fulfillment of the last capital;¹¹
 - j. request letter from the Management to obtain administrator user, Connected User, and Digital Certificate;
 - k. participation data; and
 - l. audit report on the security of a Participant's internal system conducted by an internal auditor or independent auditor.¹²
 - m. statement letter from the Management declaring that security audit is conducted independently.¹³
2. Required documents to open a Current Account according to the requirements specified in current account regulation of Bank Indonesia are as follows:
 - a. ...;
 - b. ...;
 - c. etc.

The contact person on the request as a participant is:

Name :

Phone :

Facsimile :

Your kind attention will be highly appreciated.

¹⁰ If a Participant candidate is a clearing and/or settlement operator and any other institution established under the law of Indonesia.

¹¹ If a Participant candidate is a clearing and/or settlement operator and any other institution established under the law of Indonesia.

¹² If a Participant candidate's internal system is to be connected with BI-RTGS System.

¹³ If security audit is conducted by an internal auditor.

(City), (Date) (Month) (Year)

(Institution's Name)

Signature and institution's stamp

(Management's Name)

(Position)